Montana Board of Oil and Gas Conservation Environmental Assessment

Soils/Vegetation/Land Use

(possible concerns)

Steam crossings: No, stream crossings anticipated.

High erosion potential: Yes, moderate cut, up to 15.5' and moderate fill, up to 11.9', required.

Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite: No. 500'X270' location size required. Damage to improvements: Slight, surface is a grass field.

Conflict with existing land use/values: Slight

Mitigation

- __ Avoid improvements (topographic tolerance)
- Exception location requested
- X Stockpile topsoil
- __ Stream Crossing Permit (other agency review)
- X Reclaim unused part of wellsite if productive
- __ Special construction methods to enhance reclamation
- X Other: Requires DEQ General Permit for Storm Water Discharge Associated with Construction Activity, under ARM 17.30.1102(28).

Comments: Access will be off of an existing county road #316 and existing well access road. Will build an access road off of the existing well access road of about 410' into this location. A lined reserve pit will be used to hold drill cuttings and excess drilling fluids. Oil based invert drilling fluids will be recycled after the well in finished drilling. Completion fluids and any free liquids in the reserve pit will be trucked to a Class II Disposal. Cuttings will be allowed to dry in the reserve pit, after drying the cuttings will be buried in the lined reserve pit. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence is about ¾ of a mile to the north from this location.

Possibility of H2S: Slight H2S.

Size of rig/length of drilling time: <u>Triple drilling rig 30 to 40 days drilling time.</u>

Mitigation:

- X_Proper BOP equipment
- __ Topographic sound barriers
- __ H2S contingency and/or evacuation plan
- Special equipment/procedures requirements
- __ Other:_

Comments: <u>Adequate surface casing and operational BOP should mitigate any</u> problems. No concerns.

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: None identified. Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No game range/refuge in the area.

Richland County, Piping Plover, Interior Lease Tern, Whooping Crane and Pallid
Sturgeon. Candidate specie listed is the Greater Sage Grouse.
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: Location not near to live water. Surface is private grass land. No
concerns.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified
Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies) Other:
Comments: On private surface land.
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Social/Economic (possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: Existing producing spacing unit. This is a development well within
an existing producing spacing units. No concerns
Remarks or Special Concerns for this site
Remarks of Special Concerns for this site
Well is a 19,070'MD/9,496'TVD Bakken horizontal well in Richland County
Summary: Evaluation of Impacts and Cumulative effects
No long term impacts expected. Some short term impacts will occur.
I conclude that the approval of the subject Notice of Intent to Drill (does/does not)
constitute a major action of state government significantly affecting the quality of the
human environment, and (does/ <u>does not</u>) require the preparation of an environmental
impact statement.
Prepared by (BOGC): /s/Steven Sasaki
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(title:) Chief Field Inspector
Date: September 09, 2010
Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Richland County water wells
(subject discussed)
September 9, 2010
(date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA
COUNTIES, Richland County
(subject discussed)
Contember 0, 2010
September 9, 2010
(date)
Montana Natural Heritage Program Website
(Name and Agency)
Heritage State Rank= S1, S2, S3
(subject discussed)
September 9, 2010
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: